

#7

1636

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/641,892A

DATE: 11/27/2000
 TIME: 15:31:33

ENTERED

Input Set : A:\195942US0.txt
 Output Set: N:\CRF3\11272000\I641892A.raw

1 <110> APPLICANT: IZUI, HIROSHI
 4 MORIYA, MIKA
 5 HIRANO, SEIKO
 6 HARA, YOSHIHIKO
 7 ITO, HISAO
 8 MATSUI, KAZUHIKO
 10 <120> TITLE OF INVENTION: METHOD FOR PRODUCING L-GLUTAMIC ACID BY FERMENTATION ACCOMPANIED BY
 11 PRECIPITATION
 13 <130> FILE REFERENCE: 195942US0
 15 <140> CURRENT APPLICATION NUMBER: 09/641,892A
 16 <141> CURRENT FILING DATE: 2000-08-18
 18 <150> PRIOR APPLICATION NUMBER: JP2000-78771
 19 <151> PRIOR FILING DATE: 2000-03-21
 21 <150> PRIOR APPLICATION NUMBER: JP11-234806
 22 <151> PRIOR FILING DATE: 1999-08-20
 24 <160> NUMBER OF SEQ ID NOS: 12
 26 <170> SOFTWARE: PatentIn version 3.0
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 4556
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Enterobacter agglomerans
 33 <220> FEATURE:
 34 <221> NAME/KEY: CDS
 35 <222> LOCATION: (2)..(121)
 37 <220> FEATURE:
 38 <221> NAME/KEY: CDS
 39 <222> LOCATION: (322)..(3129)
 41 <220> FEATURE:
 42 <221> NAME/KEY: CDS
 43 <222> LOCATION: (3145)..(4368)
 45 <220> FEATURE:
 46 <221> NAME/KEY: CDS
 47 <222> LOCATION: (4437)..(4556)
 49 <400> SEQUENCE: 1
 50 t gca ttc agc gtt ttc cgc tgt cac agc atc atg aac tgt gta agt gtt 49
 51 Ala Phe Ser Val Phe Arg Cys His Ser Ile Met Asn Cys Val Ser Val
 52 1 5 10 15
 54 tgt cct aaa ggg cta aac ccg acg cgc gct atc ggc cac att aag tcg 97
 55 Cys Pro Lys Gly Leu Asn Pro Thr Arg Ala Ile Gly His Ile Lys Ser
 56 20 25 30
 58 atg ctg ctg caa cgc agc gcg tag ttataccacc gggaacctca gggtcccggt 151
 59 Met Leu Leu Gln Arg Ser Ala
 60 35
 62 attttacgga agcctctgta aacgcggtcc caaccacgtt tacaaagggtt cccttacggg 211
 64 ccgggcgcgc gctgcgcaca gtgctcgtat cgctgaactc actacggcaa accgcgaaag 271
 66 cggcaacaaa tgaaacctca aaaaagcata acattgctta agggatcaca atg cag 327
 67 Met Gln

RAW SEQUENCE LISTING DATE: 11/27/2000
 PATENT APPLICATION: US/09/641,892A TIME: 15:31:33

Input Set : A:\195942US0.txt
 Output Set: N:\CRF3\11272000\I641892A.raw

```

68                                     40
70 aac agc gcg atg aag ccc tgg ctg gac tcc tcc tgg ctg gcc ggc gcg      375
71 Asn Ser Ala Met Lys Pro Trp Leu Asp Ser Ser Trp Leu Ala Gly Ala
72                                     45          50          55
74 aat cag tct tac ata gag caa ctc tat gag gat ttc ctg acc gat cct      423
75 Asn Gln Ser Tyr Ile Glu Gln Leu Tyr Glu Asp Phe Leu Thr Asp Pro
76          60          65          70
78 gac tct gtg gat gca tgg tgg cgc tcc atg ttc caa cag tta cca ggc      471
79 Asp Ser Val Asp Ala Val Trp Arg Ser Met Phe Gln Gln Leu Pro Gly
80          75          80          85
82 acg gga gtg aaa cct gag cag ttc cac tcc gca act cgc gaa tat ttc      519
83 Thr Gly Val Lys Pro Glu Gln Phe His Ser Ala Thr Arg Glu Tyr Phe
84 90          95          100          105
86 cgt cgc ctg gcg aaa gac gca tct cgt tac acc tcc tca gtt acc gat      567
87 Arg Arg Leu Ala Lys Asp Ala Ser Arg Tyr Thr Ser Ser Val Thr Asp
88          110          115          120
90 ccg gca acc aac tcc aaa caa gtg aaa gtg ctg cag ctg att aac gcg      615
91 Pro Ala Thr Asn Ser Lys Gln Val Lys Val Leu Gln Leu Ile Asn Ala
92          125          130          135
94 ttt cgt ttc cgc gga cat cag gaa gca aat ctc gat ccg ctt ggc ctg      663
95 Phe Arg Phe Arg Gly His Gln Glu Ala Asn Leu Asp Pro Leu Gly Leu
96          140          145          150
98 tgg aaa cag gac cgc gtt gcc gat ctc gat cct gcc ttt cac gat ctg      711
99 Trp Lys Gln Asp Arg Val Ala Asp Leu Asp Pro Ala Phe His Asp Leu
100          155          160          165
102 acc gac gcc gat ttt cag gaa agc ttt aac gta ggt tct ttt gcc att      759
103 Thr Asp Ala Asp Phe Gln Glu Ser Phe Asn Val Gly Ser Phe Ala Ile
104 170          175          180          185
106 ggc aaa gaa acc atg aag ctg gcc gat ctg ttc gac gcg ctg aag cag      807
107 Gly Lys Glu Thr Met Lys Leu Ala Asp Leu Phe Asp Ala Leu Lys Gln
108          190          195          200
110 acc tac tgt ggc tgc att ggt gca gag tat atg cac atc aat aac acc      855
111 Thr Tyr Cys Gly Ser Ile Gly Ala Glu Tyr Met His Ile Asn Asn Thr
112          205          210          215
114 gaa gag aaa cgc tgg atc cag cag cgt atc gaa tcc ggt gcg agc cag      903
115 Glu Glu Lys Arg Trp Ile Gln Gln Arg Ile Glu Ser Gly Ala Ser Gln
116          220          225          230
118 acg tca ttc agt ggc gaa gag aaa aaa ggt ttc ctg aaa gag ctg acc      951
119 Thr Ser Phe Ser Gly Glu Glu Lys Lys Gly Phe Leu Lys Glu Leu Thr
120          235          240          245
122 gcg gca gaa ggg ctg gaa aaa tat ctg ggc gcg aaa ttc ccg ggt gca      999
123 Ala Ala Glu Gly Leu Glu Lys Tyr Leu Gly Ala Lys Phe Pro Gly Ala
124 250          255          260          265
126 aaa cgt ttc tcc ctg gaa ggc ggt gat gcg ctg gtg ccg atg ctg cgc      1047
127 Lys Arg Phe Ser Leu Glu Gly Gly Asp Ala Leu Val Pro Met Leu Arg
128          270          275          280
130 gag atg att cgt cat gcg ggc aaa agc ggc aca cgt gaa gtg gta ctg      1095
131 Glu Met Ile Arg His Ala Gly Lys Ser Gly Thr Arg Glu Val Val Leu
132          285          290          295

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/641,892A

DATE: 11/27/2000
 TIME: 15:31:33

Input Set : A:\195942US0.txt
 Output Set: N:\CRF3\11272000\I641892A.raw

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 134 | ggg | atg | gcg | cac | cgt | ggc | cgt | ctt | aac | gta | ctg | att | aac | gta | ctg | ggt | 1143 |
| 135 | Gly | Met | Ala | His | Arg | Gly | Arg | Leu | Asn | Val | Leu | Ile | Asn | Val | Leu | Gly | |
| 136 | | | 300 | | | | | 305 | | | | | 310 | | | | |
| 138 | aaa | aag | cca | cag | gat | ctg | ttc | gac | gaa | ttc | tcc | ggt | aaa | cac | aaa | gag | 1191 |
| 139 | Lys | Lys | Pro | Gln | Asp | Leu | Phe | Asp | Glu | Phe | Ser | Gly | Lys | His | Lys | Glu | |
| 140 | | | 315 | | | | | 320 | | | | | 325 | | | | |
| 142 | cat | ctg | ggc | acc | ggt | gat | gtg | aag | tat | cac | atg | ggc | ttc | tct | tcg | gat | 1239 |
| 143 | His | Leu | Gly | Thr | Gly | Asp | Val | Lys | Tyr | His | Met | Gly | Phe | Ser | Ser | Asp | |
| 144 | 330 | | | | | | | 335 | | | | | 340 | | | 345 | |
| 146 | att | gaa | acc | gaa | ggt | ggt | ctg | gtg | cat | ctg | gcg | ctg | gcg | ttt | aac | ccg | 1287 |
| 147 | Ile | Glu | Thr | Glu | Gly | Gly | Leu | Val | His | Leu | Ala | Leu | Ala | Phe | Asn | Pro | |
| 148 | | | | | 350 | | | | | 355 | | | | | | 360 | |
| 150 | tct | cac | ctg | gaa | att | gtc | agc | ccg | gtg | gtc | atg | gga | tcg | gta | cgt | gca | 1335 |
| 151 | Ser | His | Leu | Glu | Ile | Val | Ser | Pro | Val | Val | Met | Gly | Ser | Val | Arg | Ala | |
| 152 | | | | 365 | | | | | 370 | | | | | | 375 | | |
| 154 | cgt | ctc | gat | cgt | ctg | gcc | gaa | ccg | gtc | agc | aat | aaa | gtg | ttg | cct | atc | 1383 |
| 155 | Arg | Leu | Asp | Arg | Leu | Ala | Glu | Pro | Val | Ser | Asn | Lys | Val | Leu | Pro | Ile | |
| 156 | | | | 380 | | | | | 385 | | | | | 390 | | | |
| 158 | acc | att | cac | ggt | gat | gcg | gcg | gtg | att | ggt | cag | ggc | gtg | gtt | cag | gaa | 1431 |
| 159 | Thr | Ile | His | Gly | Asp | Ala | Ala | Val | Ile | Gly | Gln | Gly | Val | Val | Gln | Glu | |
| 160 | | | 395 | | | | | 400 | | | | | 405 | | | | |
| 162 | acc | ctg | aac | atg | tct | cag | gcg | cgc | ggc | tac | gaa | gtg | ggc | ggc | acg | gta | 1479 |
| 163 | Thr | Leu | Asn | Met | Ser | Gln | Ala | Arg | Gly | Tyr | Glu | Val | Gly | Gly | Thr | Val | |
| 164 | 410 | | | | | 415 | | | | | 420 | | | | | 425 | |
| 166 | cgt | atc | gtc | att | aac | cag | ggt | ggt | ttt | acc | acc | tcc | aac | ccg | aaa | | 1527 |
| 167 | Arg | Ile | Val | Ile | Asn | Asn | Gln | Val | Gly | Phe | Thr | Thr | Ser | Asn | Pro | Lys | |
| 168 | | | | | 430 | | | | | 435 | | | | | 440 | | |
| 170 | gat | gcg | cgt | tca | acc | ccg | tac | tgt | act | gac | atc | ggc | aag | atg | gtg | ctg | 1575 |
| 171 | Asp | Ala | Arg | Ser | Thr | Pro | Tyr | Cys | Thr | Asp | Ile | Gly | Lys | Met | Val | Leu | |
| 172 | | | | 445 | | | | | 450 | | | | | 455 | | | |
| 174 | gca | ccg | att | ttc | cac | gtc | aat | gct | gac | gat | ccg | gaa | gcg | gtg | gcc | ttt | 1623 |
| 175 | Ala | Pro | Ile | Phe | His | Val | Asn | Ala | Asp | Asp | Pro | Glu | Ala | Val | Ala | Phe | |
| 176 | | | 460 | | | | | | 465 | | | | | 470 | | | |
| 178 | gtt | acc | cgc | ctg | gcg | ctg | gac | tat | cgc | aac | acc | ttc | aaa | cgc | gat | gtg | 1671 |
| 179 | Val | Thr | Arg | Leu | Ala | Leu | Asp | Tyr | Arg | Asn | Thr | Phe | Lys | Arg | Asp | Val | |
| 180 | | | 475 | | | | 480 | | | | | | 485 | | | | |
| 182 | ttt | atc | gat | ctg | gtg | tgc | tat | cgc | cgt | cat | ggt | cac | aac | gag | gcg | gat | 1719 |
| 183 | Phe | Ile | Asp | Leu | Val | Cys | Tyr | Arg | Arg | His | Gly | His | Asn | Glu | Ala | Asp | |
| 184 | 490 | | | | | 495 | | | | | 500 | | | | 505 | | |
| 186 | gag | cca | agt | gct | acc | cag | ccg | ttg | atg | tac | cag | aaa | atc | aaa | aag | cat | 1767 |
| 187 | Glu | Pro | Ser | Ala | Thr | Gln | Pro | Leu | Met | Tyr | Gln | Lys | Ile | Lys | Lys | His | |
| 188 | | | | | 510 | | | | | 515 | | | | | 520 | | |
| 190 | ccg | acg | ccg | cgt | aaa | att | tac | gcc | gat | cgt | ctg | gaa | ggc | gaa | ggt | gtc | 1815 |
| 191 | Pro | Thr | Pro | Arg | Lys | Ile | Tyr | Ala | Asp | Arg | Leu | Glu | Gly | Glu | Gly | Val | |
| 192 | | | | 525 | | | | | 530 | | | | | | 535 | | |
| 194 | gcg | tcg | cag | gaa | gat | gcc | acc | gag | atg | gtg | aac | ctg | tac | cgc | gat | gcg | 1863 |
| 195 | Ala | Ser | Gln | Glu | Asp | Ala | Thr | Glu | Met | Val | Asn | Leu | Tyr | Arg | Asp | Ala | |
| 196 | | | 540 | | | | | 545 | | | | | | 550 | | | |
| 198 | ctc | gat | gcg | ggc | gaa | tgc | gtg | gtg | ccg | gaa | tgy | cgt | ccg | atg | agc | ctg | 1911 |

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/641,892A

DATE: 11/27/2000
 TIME: 15:31:33

Input Set : A:\195942US0.txt
 Output Set: N:\CRF3\11272000\I641892A.raw

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 199 | Leu | Asp | Ala | Gly | Glu | Cys | Val | Val | Pro | Glu | Trp | Arg | Pro | Met | Ser | Leu | |
| 200 | | 555 | | | | | 560 | | | | | 565 | | | | | |
| 202 | cac | tcc | ttc | acg | tgg | tcg | cct | tat | ctg | aac | cac | gaa | tgg | gat | gag | cct | 1959 |
| 203 | His | Ser | Phe | Thr | Trp | Ser | Pro | Tyr | Leu | Asn | His | Glu | Trp | Asp | Glu | Pro | |
| 204 | 570 | | | | | 575 | | | | | 580 | | | | | 585 | |
| 206 | tat | ccg | gca | cag | gtt | gac | atg | aaa | cgc | ctg | aag | gaa | ctg | gca | ttg | cgt | 2007 |
| 207 | Tyr | Pro | Ala | Gln | Val | Asp | Met | Lys | Arg | Leu | Lys | Glu | Leu | Ala | Leu | Arg | |
| 208 | | | | | 590 | | | | 595 | | | | | | 600 | | |
| 210 | atc | agc | cag | gtc | cct | gag | cag | att | gaa | gtg | cag | tcg | cgc | gtg | gcc | aag | 2055 |
| 211 | Ile | Ser | Gln | Val | Pro | Glu | Gln | Ile | Glu | Val | Gln | Ser | Arg | Val | Ala | Lys | |
| 212 | | | | 605 | | | | | 610 | | | | | 615 | | | |
| 214 | atc | tat | aac | gat | cgc | aag | ctg | atg | gcc | qaa | ggc | gag | aaa | gcg | ttc | gac | 2103 |
| 215 | Ile | Tyr | Asn | Asp | Arg | Lys | Leu | Met | Ala | Glu | Gly | Glu | Lys | Ala | Phe | Asp | |
| 216 | | | 620 | | | | | 625 | | | | | 630 | | | | |
| 218 | tgg | ggc | ggg | gcc | gag | aat | ctg | gcg | tac | gcc | acg | ctg | gtg | gat | gaa | ggg | 2151 |
| 219 | Trp | Gly | Gly | Ala | Glu | Asn | Leu | Ala | Tyr | Ala | Thr | Leu | Val | Asp | Glu | Gly | |
| 220 | | 635 | | | | 640 | | | | 645 | | | | | | | |
| 222 | att | ccg | gtt | cgc | ctc | tcg | ggg | gaa | gac | tcc | ggg | cgt | gga | acc | ttc | ttc | 2199 |
| 223 | Ile | Pro | Val | Arg | Leu | Ser | Gly | Glu | Asp | Ser | Gly | Arg | Gly | Thr | Phe | Phe | |
| 224 | 650 | | | | | 655 | | | | 660 | | | | | 665 | | |
| 226 | cat | cgc | cac | gcg | gtc | gtg | cac | aac | cag | gct | aac | ggg | tca | acc | tat | acg | 2247 |
| 227 | His | Arg | His | Ala | Val | His | Asn | Gln | Ala | Asn | Gly | Ser | Thr | Tyr | Thr | | |
| 228 | | | | 670 | | | | | 675 | | | | | 680 | | | |
| 230 | ccg | ctg | cac | cat | att | cat | aac | agc | cag | ggc | gag | ttc | aaa | gtc | tgg | gat | 2295 |
| 231 | Pro | Leu | His | His | Ile | His | Asn | Ser | Gln | Gly | Glu | Phe | Lys | Val | Trp | Asp | |
| 232 | | | | 685 | | | | | 690 | | | | | 695 | | | |
| 234 | tcg | gtg | ctg | tct | gaa | gaa | gcg | gtg | ctg | gcg | ttt | gaa | tac | ggg | tac | gcc | 2343 |
| 235 | Ser | Val | Leu | Ser | Glu | Glu | Ala | Val | Leu | Ala | Phe | Glu | Tyr | Gly | Tyr | Ala | |
| 236 | | 700 | | | | | 705 | | | | | 710 | | | | | |
| 238 | acg | gct | gag | ccg | cgc | gtg | ctg | acc | atc | tgg | gaa | gcg | cag | ttt | ggg | gac | 2391 |
| 239 | Thr | Ala | Glu | Pro | Arg | Val | Leu | Thr | Ile | Trp | Glu | Ala | Gln | Phe | Gly | Asp | |
| 240 | | 715 | | | | | 720 | | | | | 725 | | | | | |
| 242 | ttt | gcc | aac | ggg | gct | cag | gtg | gtg | att | gac | cag | ttc | atc | agc | tct | ggc | 2439 |
| 243 | Phe | Ala | Asn | Gly | Ala | Gln | Val | Val | Ile | Asp | Gln | Phe | Ile | Ser | Ser | Gly | |
| 244 | 730 | | | | | 735 | | | | 740 | | | | | 745 | | |
| 246 | gaa | cag | aag | tgg | ggc | cgt | atg | tgt | ggc | ctg | gtg | atg | ttg | ctg | ccg | cat | 2487 |
| 247 | Glu | Gln | Lys | Trp | Gly | Arg | Met | Cys | Gly | Leu | Val | Met | Leu | Leu | Pro | His | |
| 248 | | | | 750 | | | | | 755 | | | | | 760 | | | |
| 250 | ggc | tac | gaa | ggg | cag | gga | ccg | gaa | cac | tcc | tct | gcc | cgt | ctg | gaa | cgc | 2535 |
| 251 | Gly | Tyr | Glu | Gly | Gln | Gly | Pro | Glu | His | Ser | Ser | Ala | Arg | Leu | Glu | Arg | |
| 252 | | | | 765 | | | | | 770 | | | | | 775 | | | |
| 254 | tat | ctg | caa | ctt | tgc | gcc | gag | cag | aac | atg | cag | gtt | tgc | gtc | ccg | tcg | 2583 |
| 255 | Tyr | Leu | Gln | Leu | Cys | Ala | Glu | Gln | Asn | Met | Gln | Val | Cys | Val | Pro | Ser | |
| 256 | | 780 | | | | | | | 785 | | | | 790 | | | | |
| 258 | acg | ccg | gct | cag | gtg | tat | cac | atg | ctg | cgc | cgt | cag | gcg | ctg | cgc | ggg | 2631 |
| 259 | Thr | Pro | Ala | Gln | Val | Tyr | His | Met | Leu | Arg | Arg | Gln | Ala | Leu | Arg | Gly | |
| 260 | | 795 | | | | | 800 | | | | | 805 | | | | | |
| 262 | atg | cgc | cgt | ccg | ctg | gtg | gtg | atg | tcg | ccg | aag | tcg | ctg | tta | cgc | cat | 2679 |
| 263 | Met | Arg | Arg | Pro | Leu | Val | Val | Met | Ser | Pro | Lys | Ser | Leu | Leu | Arg | His | |

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/641,892A

DATE: 11/27/2000
 TIME: 15:31:33

Input Set : A:\195942US0.txt
 Output Set: N:\CRF3\11272000\I641892A.raw

| | | | | | | | | |
|-----|-----|-----|-----|-----|------|-----|------------|-------|
| 264 | 810 | | 815 | | 820 | | 825 | |
| 266 | cca | ctg | gcg | atc | tcg | tcg | ctg | gat |
| 267 | Pro | Leu | Ala | Ile | Ser | Ser | Leu | Asp |
| 268 | | | | | 830 | | 835 | |
| 270 | ccg | gcc | att | ggt | gag | atc | gac | gat |
| 271 | Pro | Ala | Ile | Gly | Glu | Ile | Asp | Asp |
| 272 | | | | | 845 | | 850 | |
| 274 | gtc | gtg | ctg | tgc | tcc | ggt | aag | gtt |
| 275 | Val | Val | Leu | Cys | Ser | Gly | Lys | Val |
| 276 | | | | | 860 | | 865 | |
| 278 | cgt | aaa | gac | gag | aaa | acc | gat | gtt |
| 279 | Arg | Lys | Asp | Glu | Lys | Thr | Asp | Val |
| 280 | | | | | 875 | | 880 | |
| 282 | tac | ccg | ttc | ccg | cat | cag | gcg | gta |
| 283 | Tyr | Pro | Phe | Pro | His | Gln | Ala | Val |
| 284 | 890 | | | | | | | |
| 286 | cac | gta | cag | gac | ttt | gtc | tgg | tgc |
| 287 | His | Val | Gln | Asp | Phe | Val | Trp | Cys |
| 288 | | | | | 910 | | 915 | |
| 290 | gcc | tgg | tac | tgt | agc | cag | cat | cat |
| 291 | Ala | Trp | Tyr | Cys | Ser | Gln | His | His |
| 292 | | | | | 925 | | 930 | |
| 294 | gcc | acc | ctg | cgt | tat | gca | ggt | cgc |
| 295 | Ala | Thr | Leu | Arg | Tyr | Ala | Gly | Arg |
| 296 | | | | | 940 | | 945 | |
| 298 | ggt | tat | atg | tcc | gta | cac | caa | caa |
| 299 | Gly | Tyr | Met | Ser | Val | His | Gln | Gln |
| 300 | | | | | 955 | | 960 | |
| 302 | gca | ctg | aac | gtc | aat | taa | ttaaaaggaa | agata |
| 303 | Ala | Leu | Asn | Val | Asn | | | |
| 304 | 970 | | | | | | | |
| 306 | ctc | gtt | ccc | gac | ctg | cct | gaa | tcg |
| 307 | Leu | Val | Pro | Asp | Leu | Pro | Glu | Ser |
| 308 | | | | | 985 | | 990 | |
| 310 | tgg | cac | aag | aaa | cca | ggc | gat | gca |
| 311 | Trp | His | Lys | Lys | Pro | Gly | Asp | Ala |
| 312 | | | | | 1000 | | 1005 | |
| 314 | gtc | gaa | att | gaa | act | gac | aaa | gtc |
| 315 | Val | Glu | Ile | Glu | Thr | Asp | Lys | Val |
| 316 | | | | | 1015 | | 1020 | |
| 318 | gcc | gat | ggc | gtg | ctg | gaa | gcc | gtg |
| 319 | Ala | Asp | Gly | Val | Leu | Glu | Ala | Val |
| 320 | | | | | 1030 | | 1035 | |
| 322 | gtt | acg | tcc | cgc | cag | atc | ctg | ggt |
| 323 | Val | Thr | Ser | Arg | Gln | Ile | Leu | Gly |
| 324 | | | | | 1045 | | 1050 | |
| 326 | gcg | ggt | aaa | gaa | agc | agt | gcc | aaa |
| 327 | Ala | Gly | Lys | Glu | Ser | Ser | Ala | Lys |
| 328 | | | | | 1060 | | 1065 | |

VERIFICATION SUMMARY

DATE: 11/27/2000

PATENT APPLICATION: US/09/641,892A

TIME: 15:31:34

Input Set : A:\195942US0.txt

Output Set: N:\CRF3\11272000\I641892A.raw